



## Prostal Limited.

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## Carbon fiber yarn



T70012K Carbon fiber yarn or roving is a type of reinforcement material used in the manufacturing of composite materials, particularly those made with carbon fiber reinforced polymer (CFRP). It consists of a bundle of continuous, untwisted carbon fiber filaments, typically 12,000 filaments per roving. The filaments in a carbon fiber roving are made from long, thin strands of carbon atoms that are tightly woven together to form a high-strength material. When combined into a bundle, carbon fiber roving can be woven, knitted, or layered to create fabrics, mats, or pre-preg sheets that are then used to manufacture composite parts.

### Technical Data Sheet

Tensile strength	>4900 Mpa	Yarn type	T70012K yarn
Tensile modulus	≥230 Gpa	Color	Black
Elongation	≥1.8 %	Packing	Customized
Filament diameter	7- 10 μm	Weight	4 kg
Line density	800 g/km	Epoxy content	1%

COMMENTS: We do customized production as per projects requirement. Customized packing are also available.



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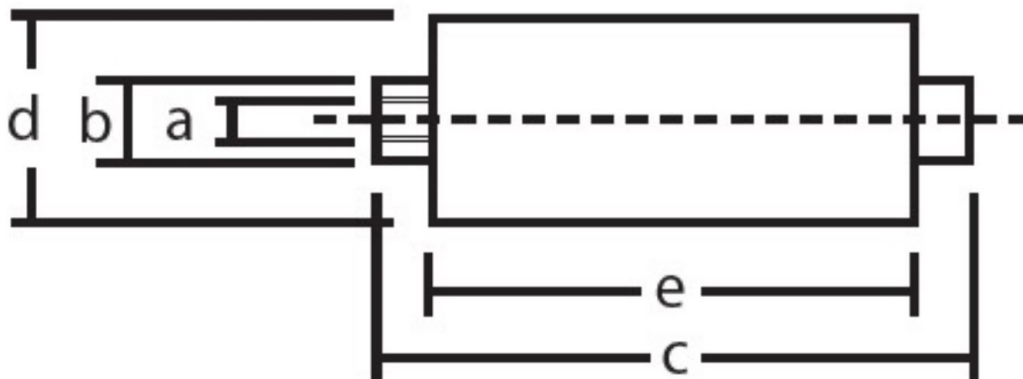
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## Package



Bobbin size: (mm)

a	b	c	d	e
76.5	82.5	280	200	252

Net weight for each bobbin: 4 kgs

Gross weight for each bobbin: 4.5 kgs

Carton size: 50cm\*30cm\*30cm, 6 bobbins per each carton

Pallet for air shipment: (30 cartons per pallet, or 180 bobbins per pallet)

Size: 100cm\*100cm\*150cm

Total net weight: 720kgs

Total gross weight: 780kgs

Pallet for sea shipment: (36 cartons per pallet, or 216 bobbins per pallet)

Size: 100cm\*100cm\*150cm

Total net weight: 864kgs

Total gross weight: 933kgs

## Test standards:

ISO 10618, ISO 1889, ISO 10548, ISO 10119



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## Test report format:

Product name	T70012K, 12K carbon fiber yarn		
No.	Test Item	Test Results	Test Standard
1	Tensile Strength	4910MPa	ISO 10618
2	Tensile modulus of elasticity	$2.5 \times 10^5$ MPa	
3	Elongation at break	1.9%	
4	Line Density	802g/Km	ISO 1889
5	Epoxy Content	1%	ISO 10548
6	Density	1.79g/cm <sup>3</sup>	ISO 10119
7	N.W	4kg/Roll	

